

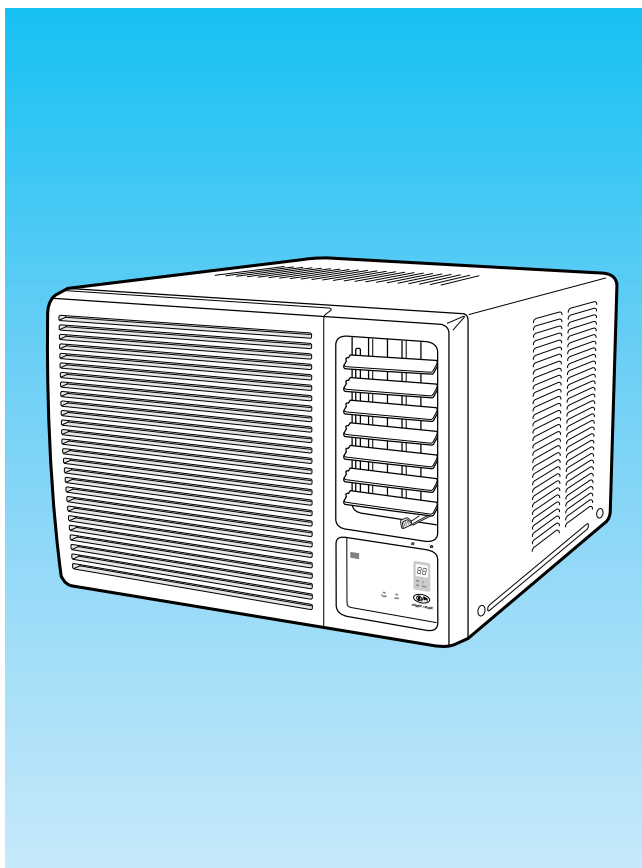
SAMSUNG

ROOM AIR CONDITIONER

AW126JB/127JB
AW126JE/127JE
AW12A6JD/12A7JD

SERVICE Manual

AIR CONDITIONER



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1. Precautions

1. Warning: Prior to repair, disconnect the power cord from the circuit breaker.
2. Use proper parts: Use only exact replacement parts. (Also, we recommend replacing parts rather than repairing them.)
3. Use the proper tools: Use the proper tools and test equipment, and know how to use equipment may cause problems later—intermittent contact, for example.
4. Power Cord: Prior to repair, check the power cord and replace it if necessary.
5. Avoid using an extension cord, and avoid tapping into a power cord. This practice may result in malfunction or fire.
6. After completing repairs and reassembly, check the insulation resistance, Procedure: Prior to applying power, measure the resistance between the power cord and the ground terminal. The resistance must be greater than 30 megohms.
7. Make sure that the grounds are adequate.
8. Make sure that the installation conditions are satisfactory. Relocate the unit if necessary.
9. Keep children away from the unit while it is being repaired.
10. Be sure to clean the unit and its surrounding area.

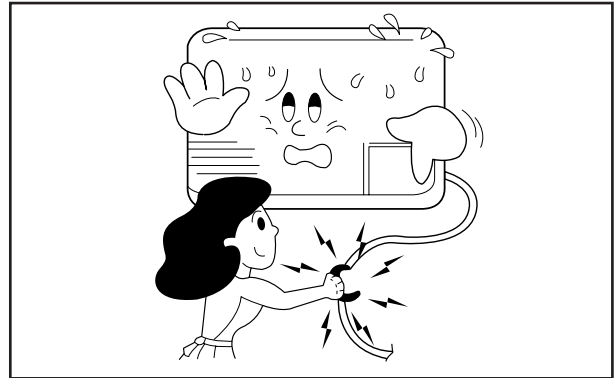


Fig. 1-1 Avoid Dangerous Contact

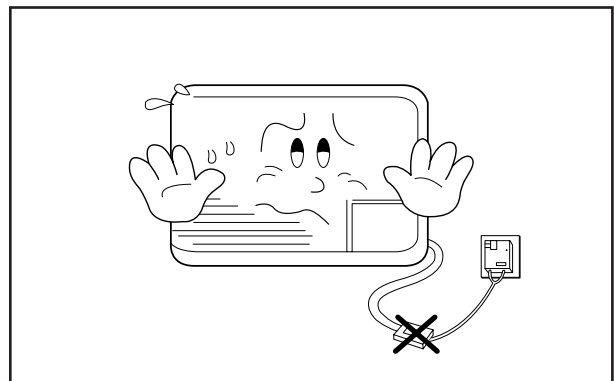


Fig. 1-2 No Tapping and No Extension Cords

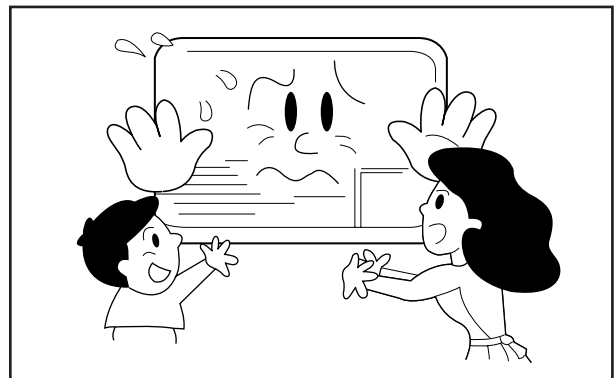


Fig. 1-3 No Kids Nearby!

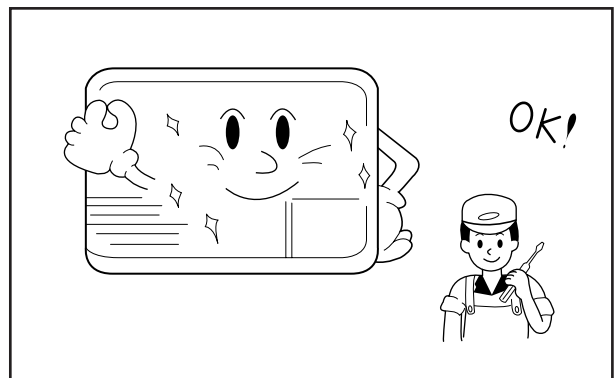


Fig. 1-4 Clean the Unit

2. Product Specifications

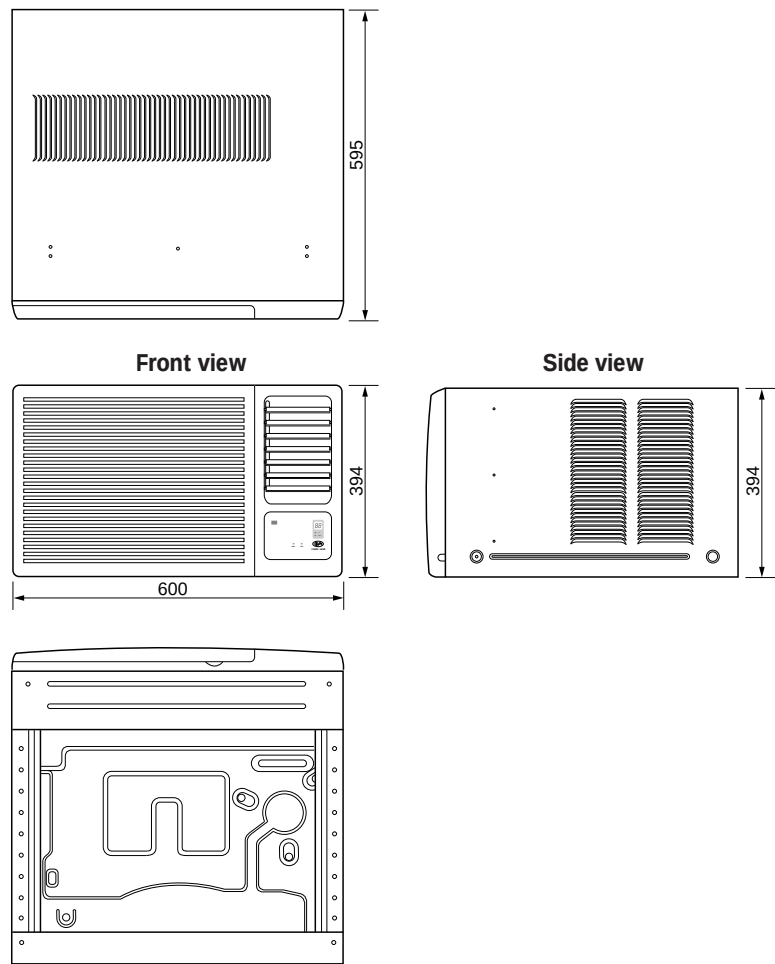
2-1 Table

Item	Unit of Measure	AW126/127JE	AW126/127JB	AW126JB(Mexico)	AW12A6JD/12A7JD	Remarks
Type	-	Window				
Dimensions: (Width x Height x Depth)	mm	600 x 394 x 595				
Packing Size (Width x Height x Depth)	mm	715 x 470 x 655				
Voltage:	Volt	220~240	220		200~220	
Phase	-	Single	Single		Single	
Frequency	Hz	50	60		50	
Operating Current	A	5.8	6.3		6.8	
Power Consumption	W	1,330	1,330		1,330	
Refrigerant Type	FREON	R-22	R-22	R-22	R-22	
Refrigerant Charge	g	660	650	880	660	
Cooling Capacity	BTU/h	12,000	12,000	12,000	12,000	
EER	BTU/h.W	9.0	9.045	9.0	9.0	
Net Weight	kg	45				
Condenser	Row	2 x 14		3 x 14	2 x 14	
Condenser Fan	Type	Propeller Fan		Propeller Fan	Propeller Fan	
Evaporator	Row	2 x 14				
Evaporator Fan	Type	Blower				
Fan Motor	W	AMAFS100ATEA	AMAFS100ZTEA		AMAFS100ATEB	
Compressor(Rotary)	Model	48A124JV1E1	44B124IW1E6		48A124MV1E5	
Overload Protect	-	MRA12030-12008	MRA12008-12008		MRA98706-12008	
Compressor Capacitor	μF/ VAC	30/450 3.5/450 DUAL TYPE				
Fan Motor Capacitor	μF/ VAC					
Fan Speed Control	-	Fan speed switch(High & Low)				
Thermo Control	-	Thermistor				
Sleep Timer	hr	24				

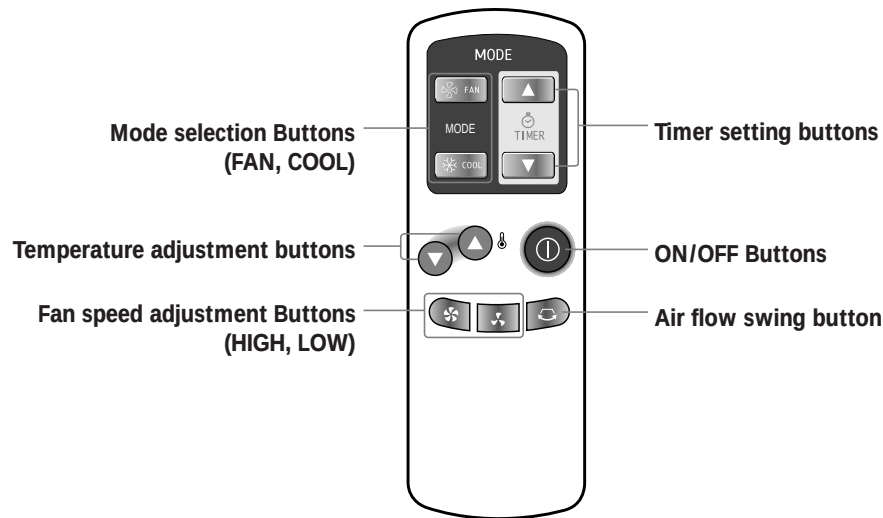
2-2 Dimensions

2-2-1 Main Unit

Unit : mm



2-2-2 Remote Control



3. Installation and Operating Instructions

3-1 Installation

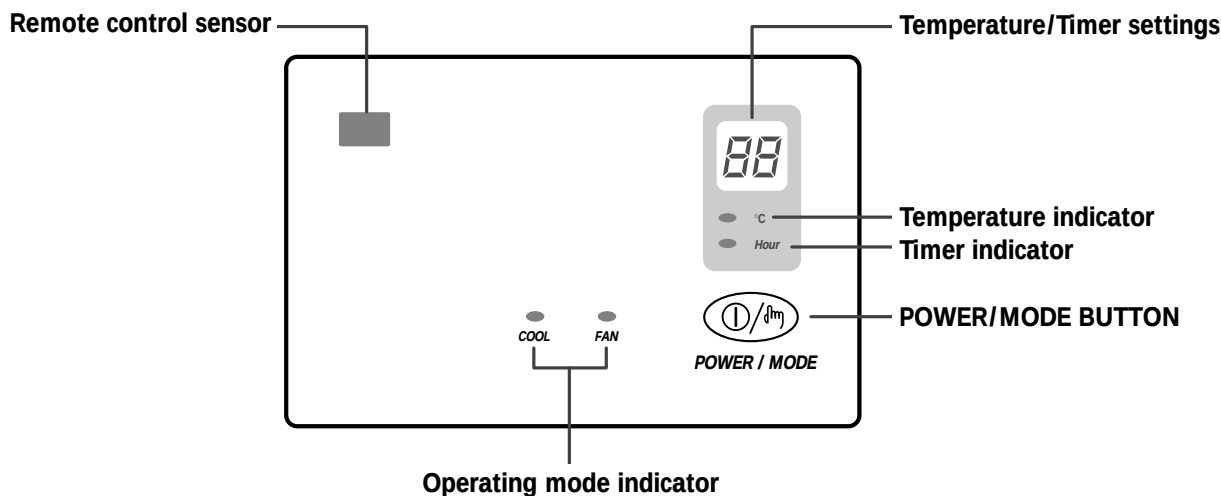
* When selecting the area for installing the unit, be sure to obtain approval of the customer.

1. Make sure that you install the unit in an area that provides good ventilation.
The air conditioner must not be blocked by any obstacle affecting the air flow near the air inlet and air outlet.
2. Make sure that you install the unit in an area which can endure the weight and vibration of the unit.
3. Make sure that you install the unit away from heat or vapor.
4. Make sure that you install the unit in an area where the cooled air can be evenly spread in a room.
5. Make sure that you install the unit in an area away from TVs, audio units, cordless phones, fluorescent lighting fixtures and other electrical appliances.
(obtain a clearance of at least one meter)
6. Make sure that you install the unit in an area which provides easy drainage for condensed water.
7. Make sure that you install the unit in an area not exposed to rain or direct sunlight.
(Install a separate sunblind if exposed to direct sunlight.)
8. Do not install the unit in an area subjected to noise or vibration amplification which may affect your neighbor.
(Fix the unit firmly if mounted in a high place.)

Caution:

Do not use the air conditioner in such areas as a greasy area(including machine oil), saline area(sea side), or sulphuric area(hot spring). When using the air conditioner in these areas, special maintenance is required. Contact your local dealer or our service center for advice.

3-2 Function Description



3-2-1 Cooling operation mode

The compressor is turned on and off according to the ambient temperature and set temperature.

1. Compressor on and off control
 - Compressor on and off control according to the ambient temperature.
 - * The compressor is turned off when "ambient temperature = set temperature -1°C"
 - * The compressor is turned on when "ambient temperature = set temperature +1°C"
2. Default value after power reset → set temperature = 18°C
FAN SPEED = HIGH
3. Set temperature indicating (setting) range : 1°C interval from 18°C to 30°C.

3-2-2 Fan operation mode

1. If "Fan operation mode" signal is received from remocon.
 - the compressor is immediately turned off and only fan motor is operated at set blowing speed.
 - it changes such as "HIGH → LOW → HIGH"(if Fan speed is selected).
2. The initial FAN speed is set to "HIGH".
3. The set temperature can not be indicated and set.

3-2-3 LED lamp and LED display indication in case of error detection

ERROR OPERATION	LED LAMP DISPLAY		7-SEG LED DISPLAY
	COOL	FAN	
ROOM THERMISTOR (OPEN OR SHORT)	●	×	E1 displayed

Lamp ● — blinking at every second (on for 0.5s and off for 0.5s)

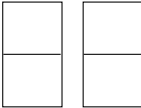
× — LED lamp off

- Set operation in case of error occurrence.
 - Malfunction of each temperature sensor (open, short)
 - Error mode display, warning sound.
 - The operation status is off.
- The "outdoor pipe thermistor" error mode carry out checking only during heating operation and do not carry out checking during "COOLING" and "FAN" operation.

3-2-4 Panel key operation

Key discription Key name	Key operational function	Key Type
Power/Mode	1. Operation mode change and POWER OFF(in case of model option cooling only) * at every ON - Selected as "OFF → COOL → FAN → OFF". (DEFAULT=OFF) * Continuous operation is not available.	TACT

3-2-6 LED lamp operation specifications

LAMP name	Operations specifications
COOL	The mode is set to "COOL" -> ON Others -> OFF
FAN	The mode is set to "FAN" -> ON Others -> OFF
°C	The set temperature is displayed or set -> ON Others -> OFF
HR	During setting of the convenient reserve (OFF TIMER) time -> blinking After setting of the convenient reserve (OFF TIMER) time -> ON Others -> OFF
 (1) (2)	In case of (set) temperature display -> NO. (1) 7 seg. LED display indicates temperature of the tens digit (°C, °F) -> NO. (2) 7 seg. LED display indicates temperature of the units digit (°C, °F) In case of time (OFF TIMER) display -> NO. (1) 7 seg. LED display indicates time of the tens digit -> NO. (2) 7 seg. LED display indicates time of the units digit

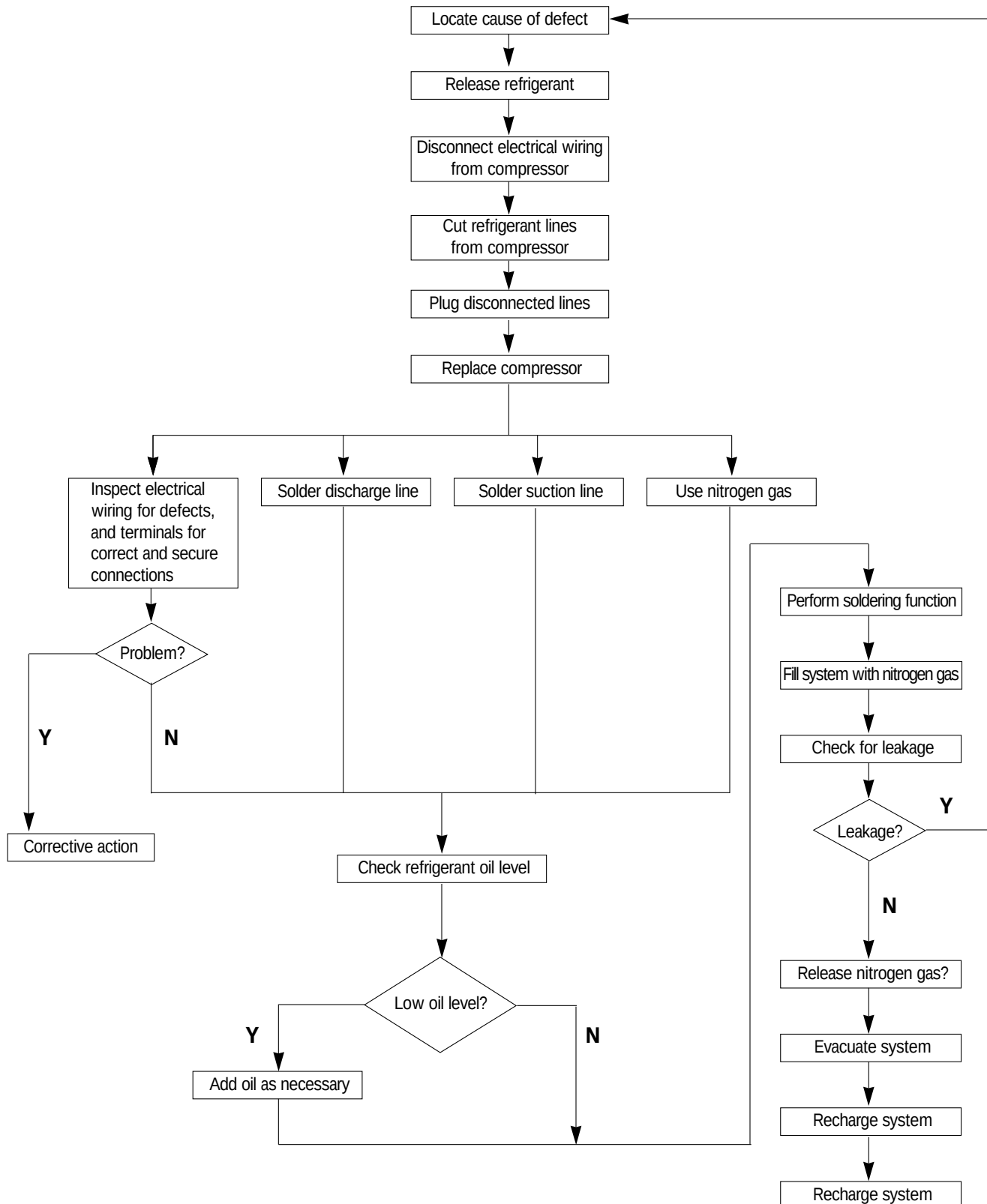
3-2-7 Resistor values table of “ROOM THERMISTOR” for each temperature

<Room thermistor>

Temperature [°C]	THERMISTOR RESISTOR [Kohm]	Temperature [°C]	THERMISTOR RESISTOR [Kohm]
70	2.229	29	8.622
69	2.296	28	8.944
68	2.365	27	9.281
67	2.437	26	9.632
66	2.512	25	10.000
65	2.589	24	10.380
64	2.669	23	10.780
63	2.752	22	11.200
62	2.838	21	11.630
61	2.928	20	12.090
60	3.021		
		19	12.560
59	3.116	18	13.060
58	3.216	17	13.570
57	3.319	16	14.120
56	3.426	15	14.680
55	3.537	14	15.280
54	3.652	13	15.900
53	3.772	12	16.550
52	3.897	11	17.240
51	4.026	10	17.960
50	4.161		
		9	18.700
49	4.300	8	19.480
48	4.444	7	20.290
47	4.594	6	21.150
46	4.749	5	22.050
45	4.912	4	22.990
44	5.080	3	23.900
43	5.256	2	25.030
42	5.439	1	26.130
41	5.630	0	27.280
40	5.828		
		-1	28.470
39	6.033	-2	29.720
38	6.246	-3	31.040
37	6.468	-4	32.430
36	6.699	-5	33.890
35	6.941	-6	35.430
34	7.192	-7	37.050
33	7.455	-8	38.760
32	7.729	-9	40.560
31	8.015		
30	8.313		

4. Disassembly and Reassembly

4-1 Compressor Replacement Flow Chart



4-2 Checking the oil

Fill the transparent container with 10cc of oil, and then conduct the test.

4-2-1 Oil quality

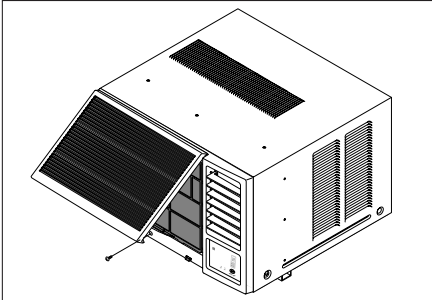
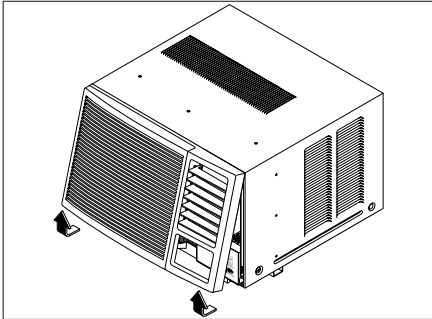
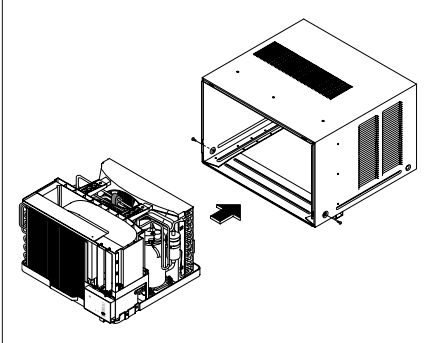
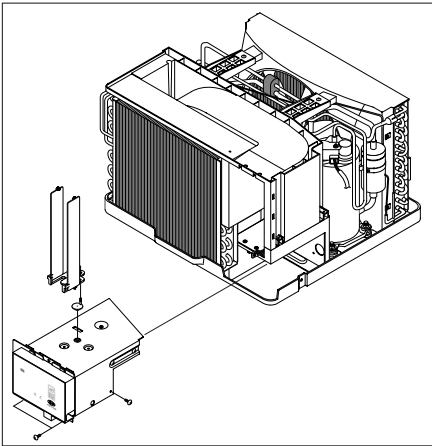
Refrigerant Cycle	Oil Condition		Remarks
	Color	Odor	
Normal	Light Yellow	No Odor	Return with the system
Over-heated	Brown	-	Oil Change
Compressor damage	Dark brown	Pungent oil	Oil Change

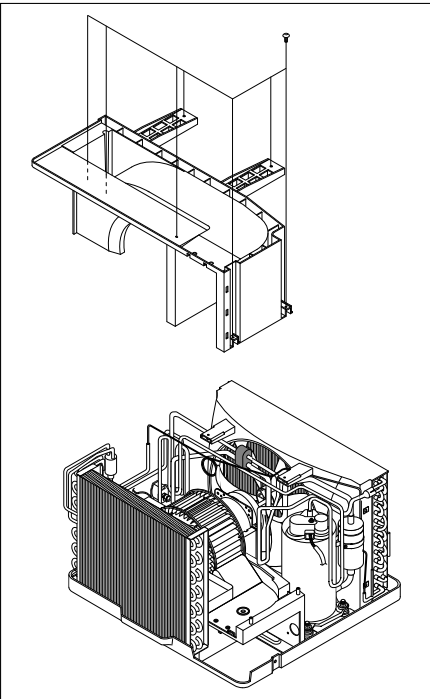
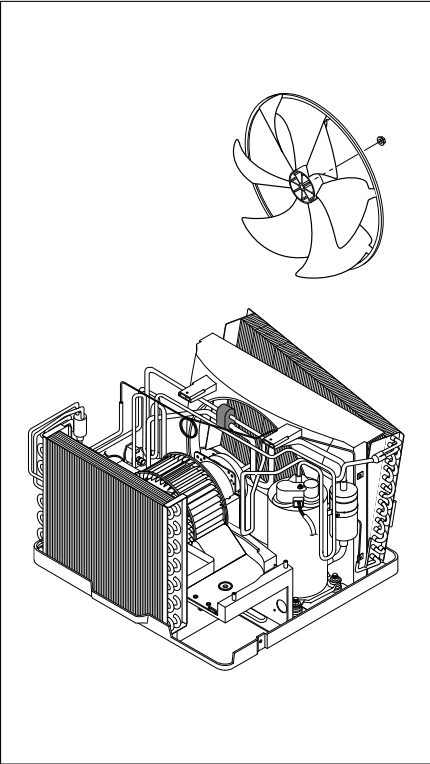
4-2-2 Replacing and refilling the refrigerant oil

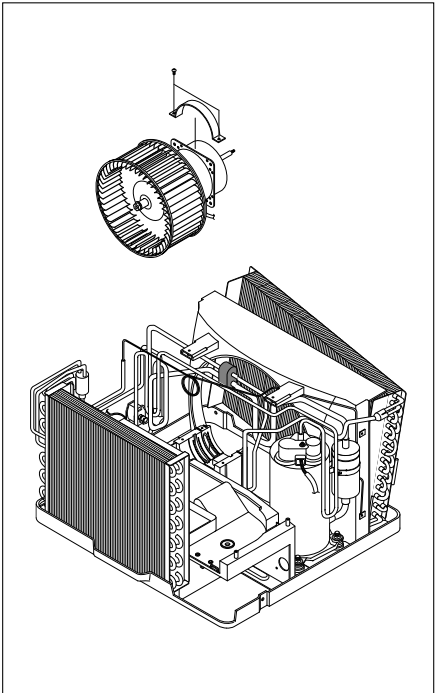
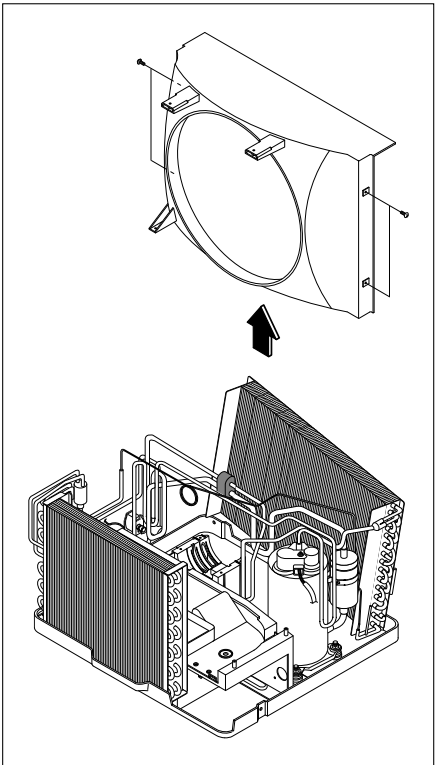
1. Replacing the compressor - Do not fill the system with oil as the compressor is already charged.
2. Replacing the condenser - Refill 50cc.
3. Replacing the evaporator - Refill 50cc.
4. Replacing the refrigerant - Refill 30cc.
5. The high pressure side is filled up with oil after the vacuum is completed.
6. When the refrigerant leaks, it is generally not necessary to refill the oil if the leakage is not severe.

4-3 Disassembly and Reassembly Procedure

Stop operating the air conditioner, and pull out the power cord before repair.

No.	Part name	Procedures	Remarks
①	Ass'y Grill	1. Pull the panel front and remove the screw on the grille 2. Hold the lower part of the grill with two hands while pressing down on both sides of the lower part of the cabinet, pull it forward by about 30, and then lift it up for removal.	 
②	Ass'y Cabinet	1. Remove the screws on both sides of the cabinet to disconnect the cabinet and frame. 2. Pull the handle on the front side of the bottom, and remove the unit from the cabinet.	
③	Ass'y Control	1. Remove 6 screws, and earth wire screw. 2. Remove three lead wire assemblies. 3. Remove the blade V and arm blade. 4. Take out the control box forward.	

No.	Part name	Procedures	Remarks
④	Frame Up	1. Remove 10 screws on the Frame Up.	
⑤	Case Cond & Propeller Fan	1. Remove two screws on the bottom side, and 5 screws on the case cond. 2. Remove the nut flange, and remove the propellr fan	

No.	Part name	Procedures	Remarks
⑥	Blower & Motor	1. Remove two screws on the clip motor, and remove the clip motor. 2. Move the motor & blower toward the evap, and lift up the motor & blower from the frame low.	
⑦	Cond Casing	1. Remove the cond casing	

5. Troubleshooting

Check the basic checkpoints first to determine whether it is machine trouble or a problem in the operation method. When it is not related to the basic checkpoints, perform checking in accordance with the procedures of troubleshooting by symptom.

5-1 Basic Checkpoints for Troubleshooting

- 1) Is the voltage of the power source appropriate ?
 - (1) It should be within the range of AC 198V ~ 264V.
 - (2) The air conditioner may not operate properly when the voltage is out of this range.
- 2) Is the connection with the fan motor, compressor wire, and starting condenser appropriately made ?
- 3) The symptoms listed in the table below are not indicative of machine trouble.

Symptom	Cause and check
No operation	• Check whether there is power failure or the power plug is pulled out. • Check whether the unit is stopped as a result of completion of the sleep time. • Pull out the power plug for ten seconds, and then insert it again.
Air flows, but no cooling	• Check whether the Air filter is clogged with dust or is dirty. • Check whether the desired temperature is too high. Set the desired temperature to a lower level than the current temperature. • Check whether it is in "FAN" mode.
The remote does not operate	• Check whether battery is completely depleted. • Check whether the battery is properly inserted. • Check whether the receiving window of the remote for the assembly panel PCB is blinded. • Check whether the remote is affected by jamming due to a neon sign.
No temperature setting	• Check whether the unit is in "FAN" mode. (In "FAN" mode, only the current temperature is displayed, and the desired temperature is not set.)

• Checking and Display of Fault Area

ERROR OPERATION	LED LAMP DISPLAY		7-SEG LED DISPLAY
	COOL	FAN	
ROOM THERMISTOR (OPEN OR SHORT)		×	E1 displayed

* Lamp  --- blinking at every second (on for 0.5s and off for 0.5s)

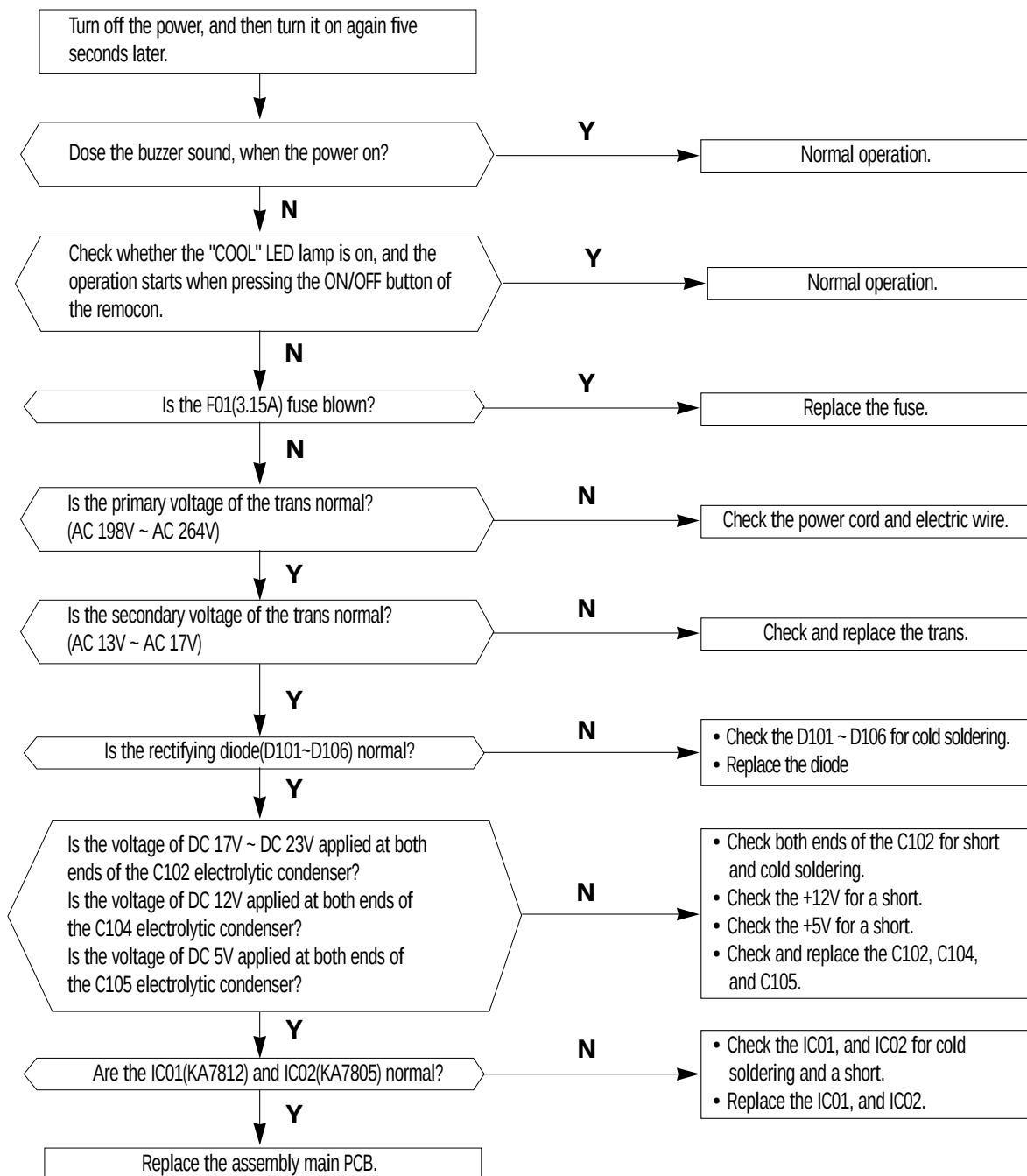
× --- LED Lamp off

5-2 Troubleshooting by Symptom

5-2-1 No power

1) Check points

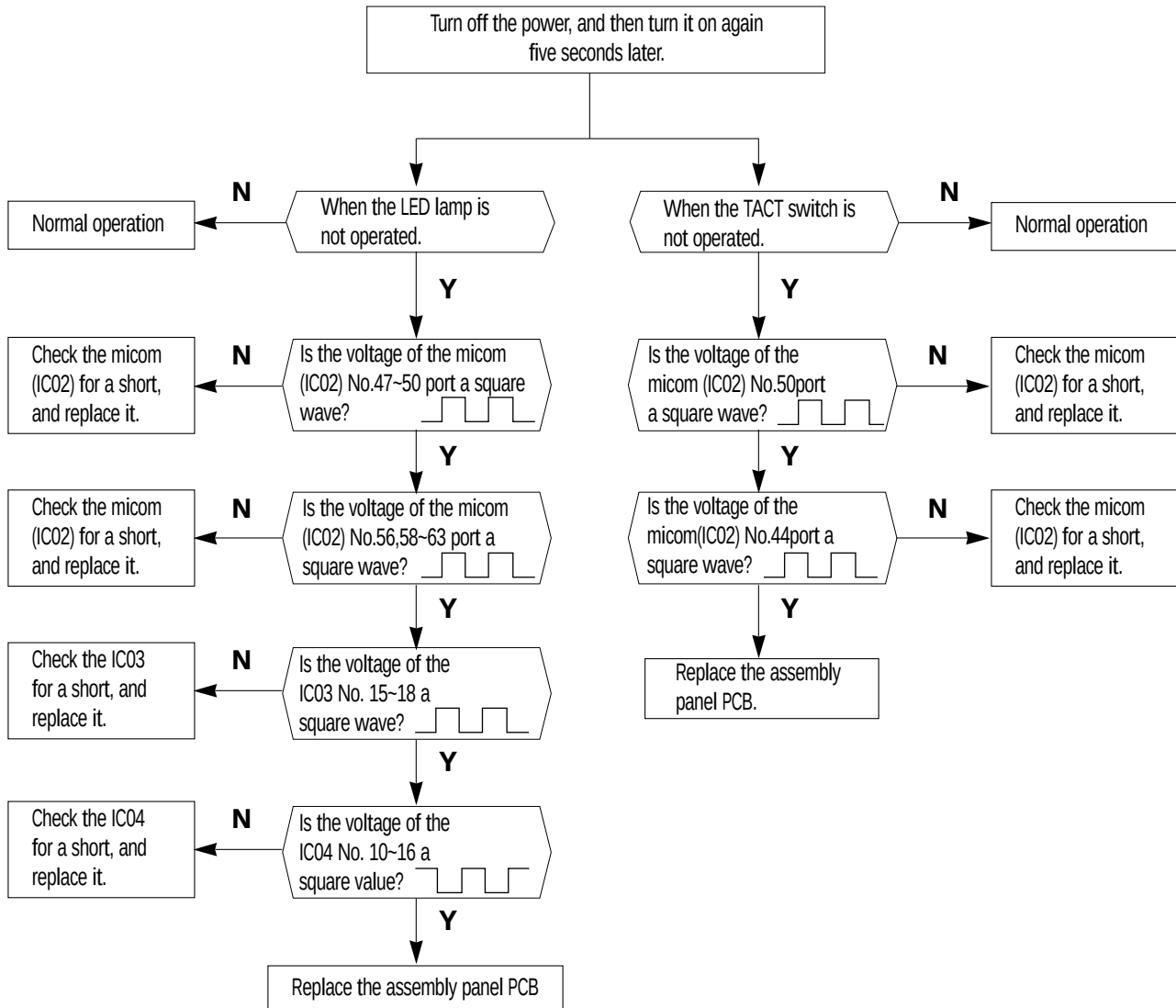
- (1) Is the voltage of the power source normal ? (AC 198V ~ AC 264V)
- (2) Is the electric wire in good contact ?(CN 71, RY 71)
- (3) Is the output voltage of the IC01(KA 7812) normal ?(DC 11.5V ~ DC 12.5V)
- (4) Is the output voltage of the IC02(KA 7805) normal ?(DC 4.5V ~ DC 5.5V)
- (5) Is the connection of the assembly main PCB, and assembly panel PCB in good contact?(CN11, CN12)



5-2-2 When the assembly panel PCB is not operated

1) Check points

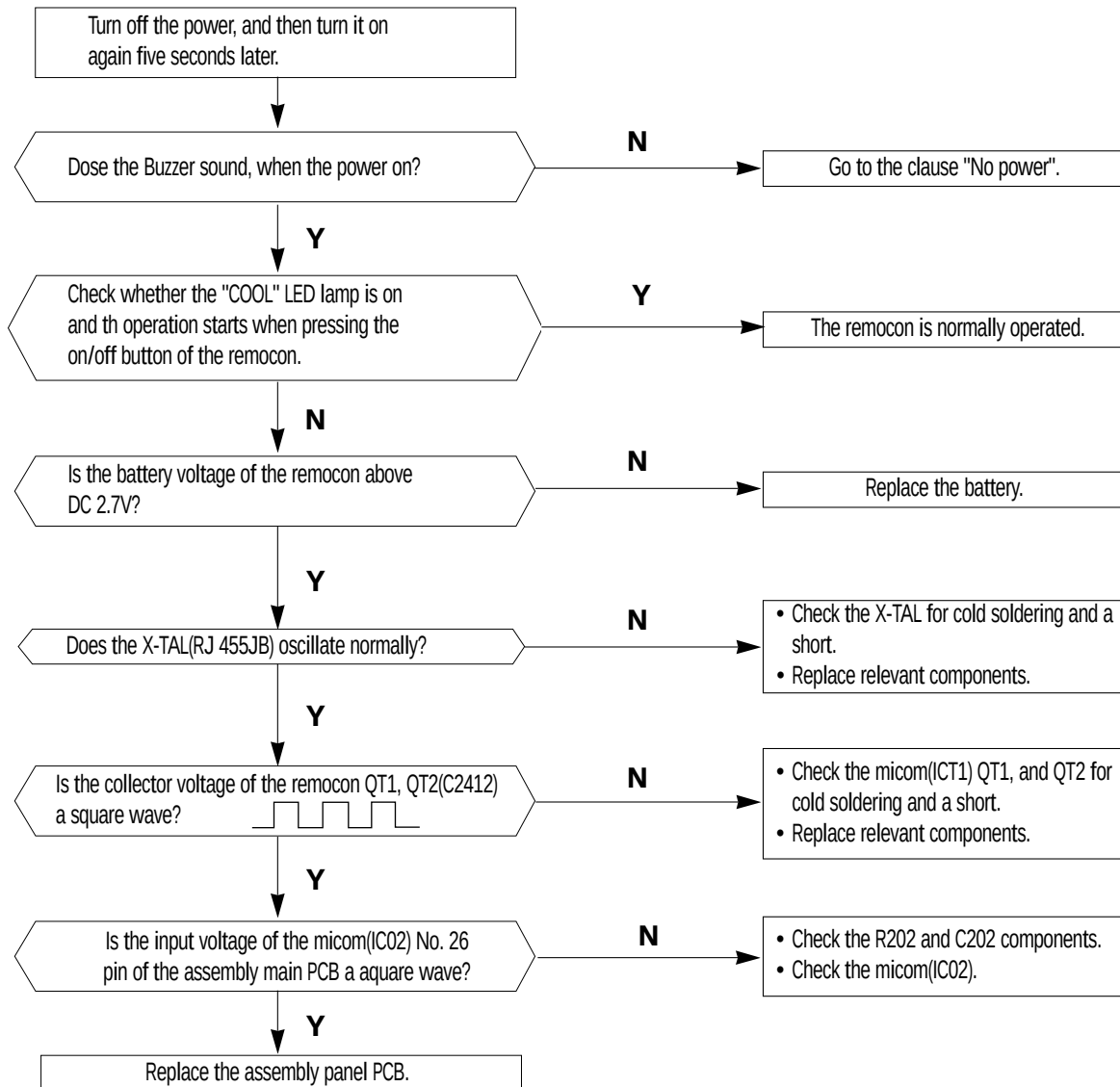
- (1) Is the voltage of the power source normal ?(AC 198V ~ AC 264V)
- (2) Is the electric wire in good contact ?(CN71, RY71)
- (3) Is the connection of the assembly main PCB, and assembly panel PCB in good contact?
(CN11, CN12)
- (4) Is the voltage of +12V normal ?(CN 12 No 1 pin and No 12 pin : +12V±0.5V)
- (5) Is the voltage of +5V normal ?(CN12 No 2 pin and No 12 pin : +5V±0.5V)



5-2-3 When the remocon is not operated

1) Check points

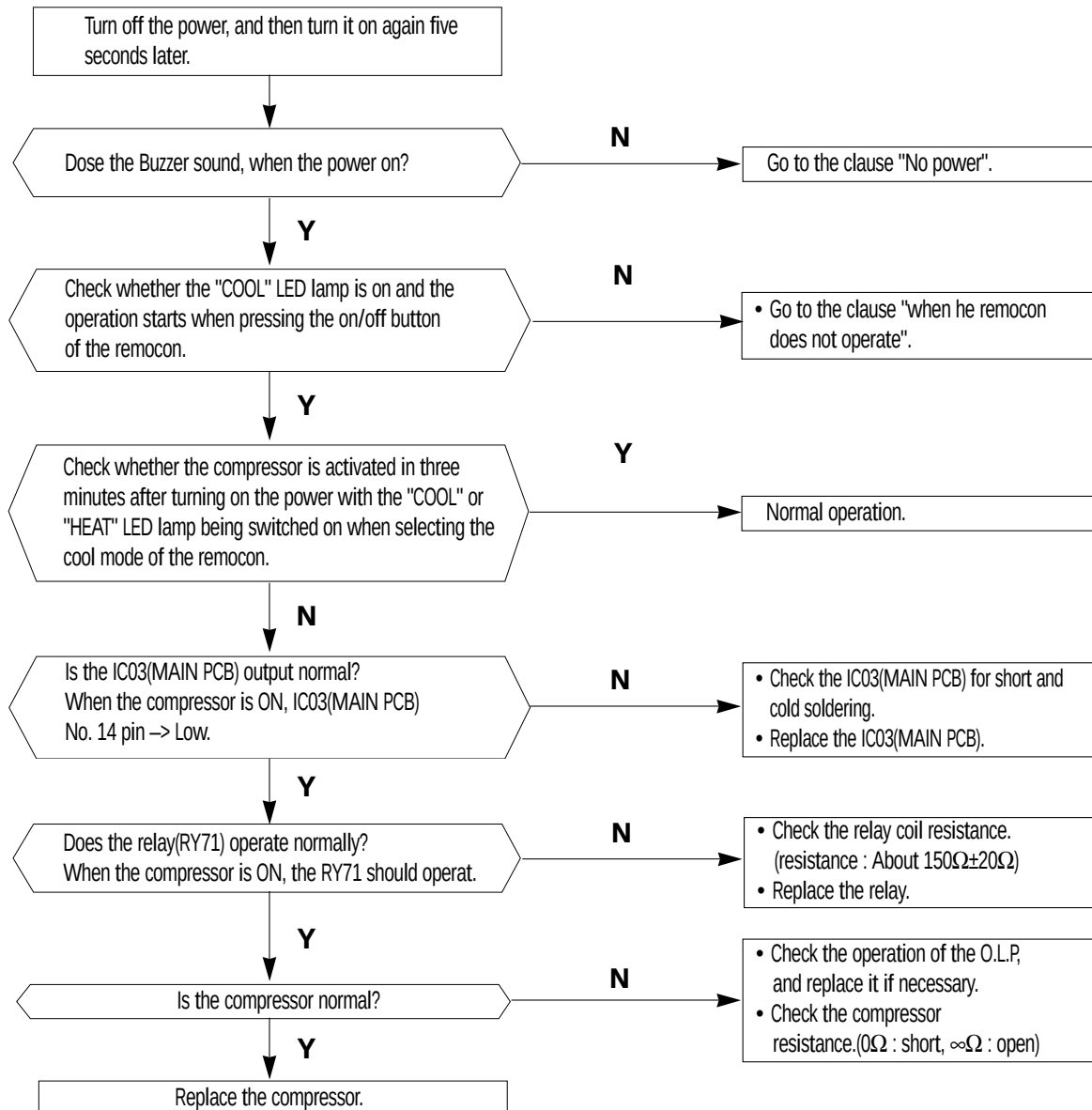
- (1) Is the voltage of the power source normal ? (AC 198 ~ AC 264V)
- (2) Is the electric wire in good contact ? (CN71, RY71)
- (3) Is the assembly main PCB in good contact with the assembly panel PCB?(CN11, CN12)
- (4) Is the voltage of +12V and +5V of the assembly panel PCB normal?
(CN12 No 1 pin and No 12 pin : +12V, No 2 pin and No 12 pin : +5V)
- (5) Is the battery vortage of the remocon above DC 2.7V?



5-2-4 When the compressor is not operated

1) Check points

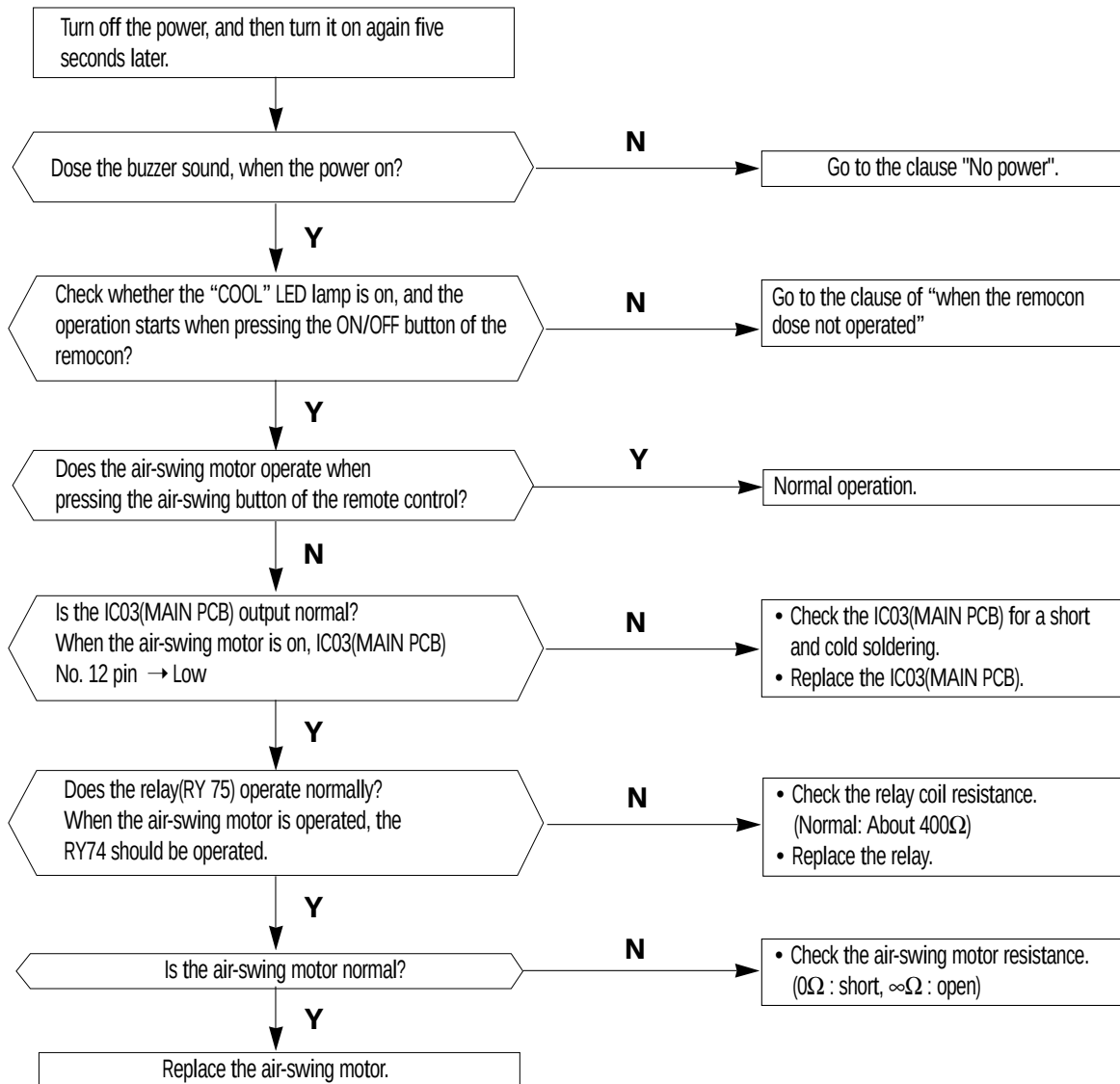
- (1) Is the voltage of the power source normal ? (AC 198V ~ AC 264V)
- (2) Is the desired temperature lower than the indoor temperature in the "COOL" mode?
(Compressor stopped)
- (3) Is the desired temperature higher than the indoor temperature in the "HEAT" mode?
(Compressor stopped)
- (4) Is the starting condenser in good contact?
- (5) Is the electric wire in good contact ? (CN71, RY71)
- (6) Is the output voltage of the IC01(KA7812) and IC02(KA7805) normal ?



5-2-5 When the air swing motor is not operated

1) Check points

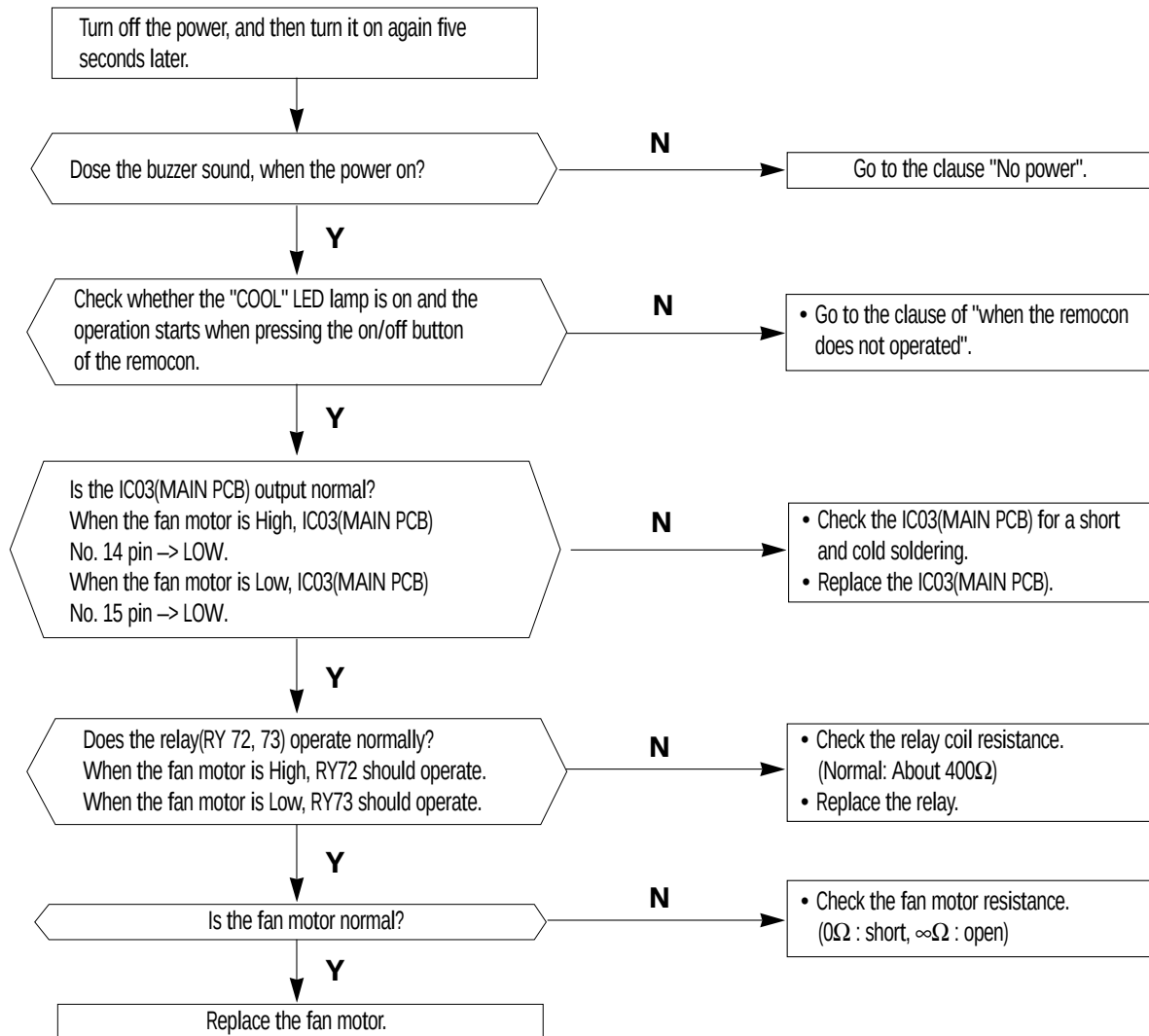
- (1) Is the voltage of the power source normal?(AC198V ~ AC264V)
- (2) Is the electric wire in good contact?(CN71, RY71)
- (3) Is the swing motor connector in good contact?(CN71)
- (4) Is the terminal connected to the swing motor in good contact?
- (5) Is the output voltage of the IC01(KA7812) and IC02(KA7805) normal?



5-2-6 When the fan motor does not operated

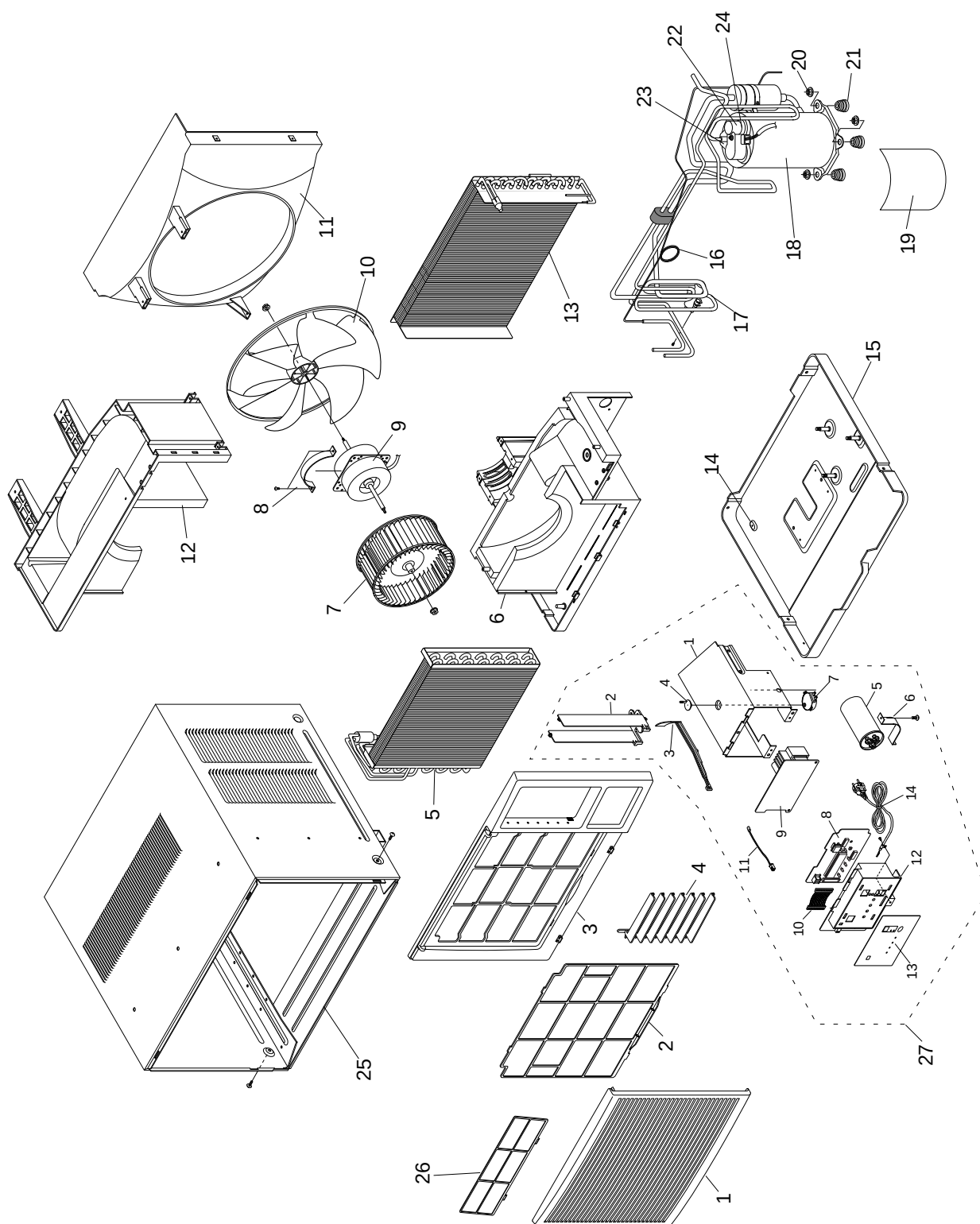
1) Check points

- (1) Is the voltage of the power source normal ?(AC198V ~ AC264V)
- (2) Is the electric wire in good contact ?(CN71, RY71)
- (3) Is the starting condenser in good contact?
- (4) Is the fan motor connector in good contact?(CN73)
- (5) Is the output voltage of the IC01(KA7812) and IC02(KA7805) normal ?



6. Exploded View and Parts List

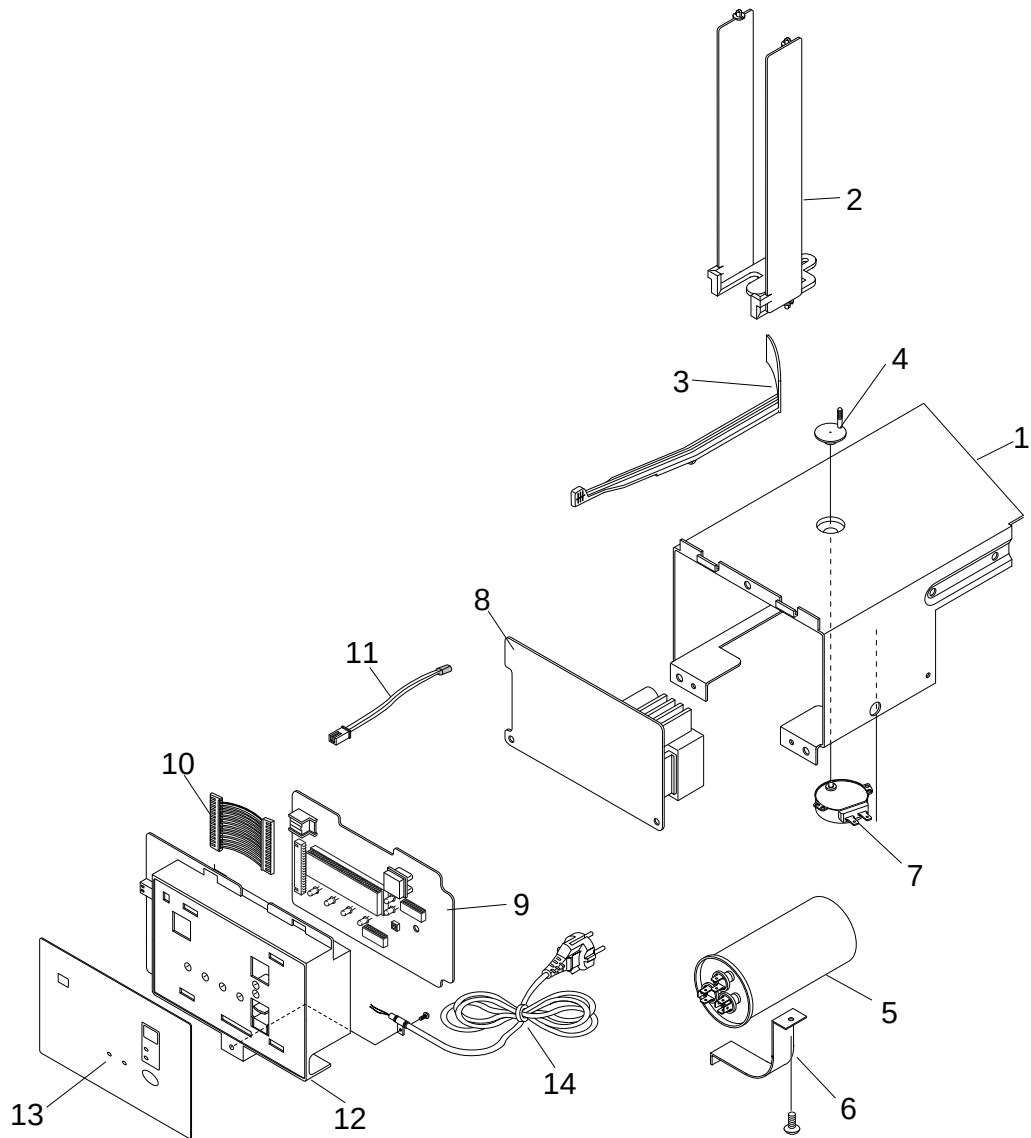
6-1 Main unit



■ Part List

No.	Code No.	Description	Specification	Q'TY							Remarks
				AW126JE	AW127JE	AW126JB	AW127JB	AW126JB (Mexico)	AW12A6JD	AW12A7JD	
1	DB64-10145A	GRILLE AIR INLET	HIPS	1	1	1	1	1	1	1	
2	DB63-30142A	GUARD AIR FILTER	HIPS	1	1	1	1	1	1	1	
3	DB64-70080A	PANEL FRONT	HIPS	1	1	1	1	1	1	1	
4	DB66-30169A	BLADE-H	PP	1	1	1	1	1	1	1	
5	DB96-40173A	ASS'Y EVAP	AWH120JE	1	1	1	1	1	1	1	
6	DB90-50133A	ASS'Y FRAME LOW	AWH120JE	1	1	1	1	1	1	1	
7	DB67-50073A	BLOWER	ABS+G/F	1	1	1	1	1	1	1	
8	DB65-10101A	CLIP MOTOR	SECC-P	1	1	1	1	1	1	1	
9	DB31-10145B	MOTOR	AMAFS100ZTEA	-	-	1	1	1	-	-	▲
	DB31-10145A	MOTOR	AMAFS100ATEA	1	1	-	-	-	-	-	▲
	DB31-10145D	MOTOR	AMAFS100ATEB	-	-	-	-	-	1	1	▲
10	DB67-50072A	FAN PROPELLER	ABS+G/F	1	1	1	1	1	1	1	
11	DB61-10152A	CASE COND	PP	1	1	1	1	1	1	1	
12	DB90-50142A	ASS'Y FRAME UP	AWH120JE	1	1	1	1	1	1	1	
13	DB96-30279A	ASS'Y COND	AW123JB	1	1	1	1	1	1	1	
	DB96-30284A	ASS'Y COND	AW126JB-XAX	-	-	-	-	1	-	-	
14	DB63-10355A	CAP DRAIN	CR	1	1	1	1	1	1	1	
15	DB90-20199A	ASS'Y BASE	AW120JB, 44F	-	-	1	1	1	-	-	▲
	DB90-20198A	ASS'Y BASE	AWH121JE, 48F	1	1	-	-	-	1	1	▲
16	DB62-31741A	TUBE CAPILLARY ASS'Y	ID1.7,L1200	1	1	1	1	1	1	1	
17	DB96-10602A	ASS'Y TUBE CONNECTION	ASS'Y	-	-	1	1	-	-	-	▲
	DB96-10602B	ASS'Y TUBE CONNECTION	AW126JE	1	1	-	-	-	1	1	▲
	DB96-10602C	ASS'Y TUBE CONNECTION	AW122JB/XAX	-	-	-	-	1	-	-	▲
18	DB95-10065W	ASS'Y COMP	44B124IV1E6	-	-	1	1	1	-	-	▲
	DB95-10064D	ASS'Y COMP	48A124JV1E1	1	1	-	-	-	-	-	▲
	DB95-10063B	ASS'Y COMP	48A124MV1E5	-	-	-	-	-	1	1	▲
19	DB72-50546A	CLOTH SOUND	T12	1	1	1	1	1	1	1	
20	DB60-30028A	NUT WASHER	M8, ZPC	3	3	3	3	3	3	3	
21	DB73-10004A	GROMMET-ISOLATOR	EPDM	3	3	3	3	3	3	3	
22	DB63-10165A	COVER TERMINAL	NORYL, BLK	1	1	1	1	1	1	1	
23	DB60-30018A	NUT-FLANGE	M5, SM20C	1	1	1	1	1	1	1	
24	DB47-20001M	OLP-POLYESTER	MRA12008-12008	-	-	1	1	1	-	-	▲
	DB47-20007M	OLP-POLYESTER	MRA12030-12008	1	1	-	-	-	-	-	▲
	DB47-20001V	OLP-POLYESTER	MRA98706-12008	-	-	-	-	-	1	1	▲
25	DB90-10586A	ASS'Y CABINET	ASS'Y	1	1	1	1	1	1	1	
26	DB63-30145A	GUARD-C/FILTER	PP	-	1	-	1	-	-	1	
27	DB98-11178A	ASS'Y CONTROL	AW126JB	-	-	1	1	1	-	-	▲
	DB98-11178C	ASS'Y CONTROL	AW126JE	1	1	-	-	-	1	1	▲

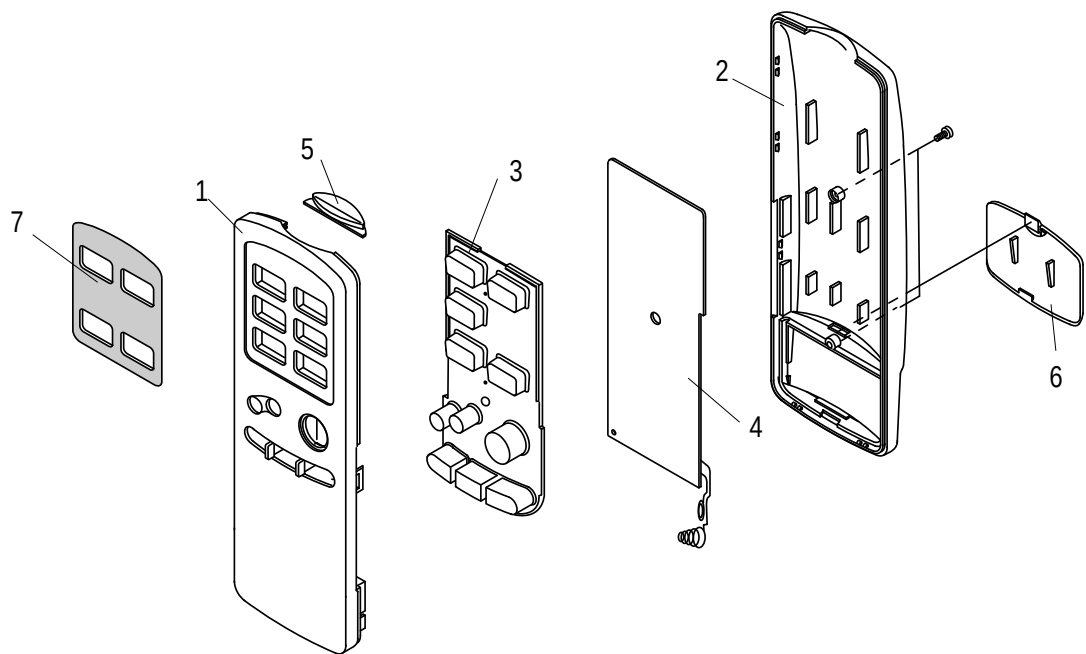
6-2 Ass'y Control



■ Part List : ASS'Y CONTROL

No.	Code No.	Description	Specification	Q'TY							Remarks
				AW126JE	AW127JE	AW126JB	AW127JB	AW126JB (Mexico)	AW12A6JD	AW12A7JD	
0	DB98-11178A	ASS'Y CONTROL	AW126JB	-	-	1	1	1	-	-	▲ ▲
	DB98-11178C	ASS'Y CONTROL	AW126JE	1	1	-	-	-	1	1	
1	DB61-10153A	CASE CONTROL	SECC-P, TO.8	1	1	1	1	1	1	1	
2	DB66-30170A	BLADE-V	PP	1	1	1	1	1	1	1	
3	DB66-70024A	LEVER DAMPER	HIPS	1	1	1	1	1	1	1	
4	DB66-70022A	ARM-BLADE	ABS	1	1	1	1	1	1	1	
5	2501-001124	C-OIL	3.5/30 uF, 450VAC	1	1	1	1	1	1	1	
6	DB65-10100A	CLIP-CAPACITOR	SECC-P, TO.8	1	1	1	1	1	1	1	
7	DB95-20065F	SWING MOTOR	M2LJ49ZU32	1	1	1	1	1	1	1	
8	DB93-10502A	ASS'Y MAIN PCB	AW126JE	1	1	1	1	1	1	1	
9	DB93-10501A	ASS'Y PANEL PCB	AW126JE	1	1	1	1	1	1	1	
10	DB93-20188B	C/W DISPLAY	AWH126JE	1	1	1	1	1	1	1	
11	DB32-10051A	THERMISTOR	AWH126JE	1	1	1	1	1	1	1	▲ ▲
12	DB64-70083A	PANEL-CONTROL E	HIPS	1	1	1	1	1	1	1	
13	DB64-40178A	INLAY-CONTROL E	AW126JE	1	1	1	1	1	1	1	
14	DB39-10086A	POWER CORD	UCP-2, 250V	1	1	-	-	-	1	1	
	DB90-10075M	POWER CORD	DR-17, 250V	-	-	1	1	1	-	-	

6-3 ASS'Y REMOCON(DB93-30056C)

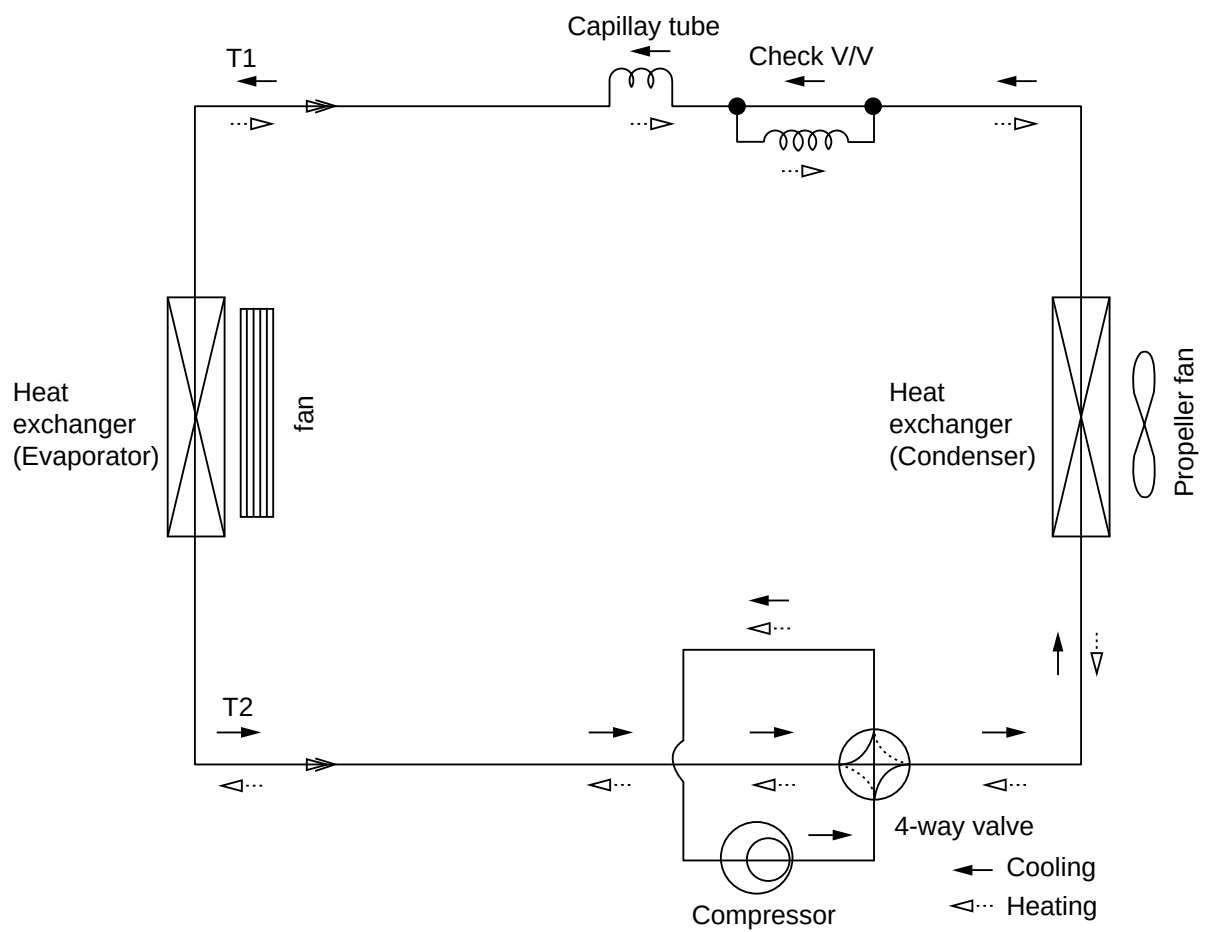


Part List

No.	Code No.	Description	Specification	Q'TY	Remarks
	DB93-30056B	ASS'Y REMOCON	ARC-201	1	
1	DB61-10150A	CASE REMOCON(UPP)	ABS	1	
2	DB61-10145A	CASE REMOCON(LW)	ABS	1	
3	DB73-20112B	RUBBER(BT)	NBR	1	
4	DB93-10516B	ASS'Y REMOCON PCB	AWH126JE	1	
5	DB74-10084A	FILTER-REMOCON	PC	1	
6	DB63-10477A	COVER BATTERY	ABS	1	
7	DB64-40108B	INLAY-FEMOCON	PC	1	

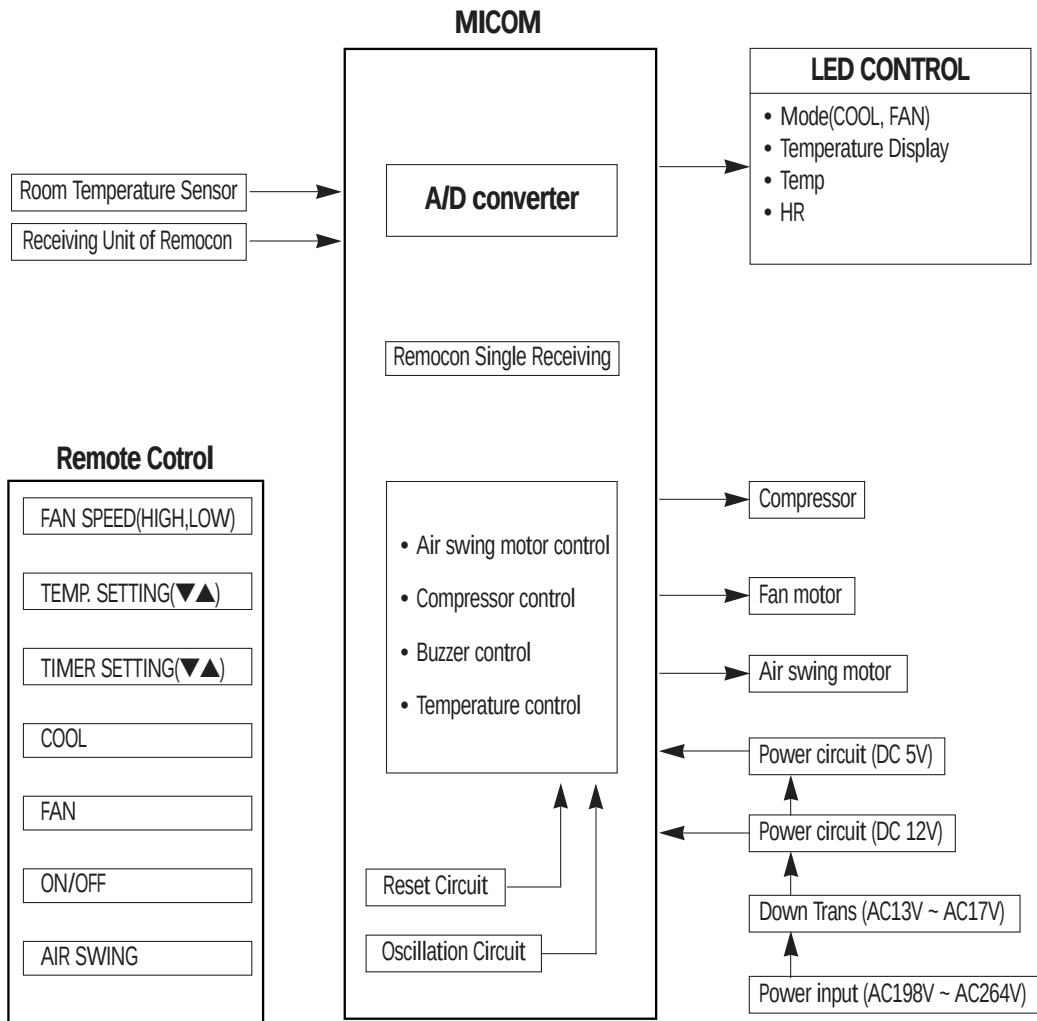
7. Block Diagram

7-1 Refrigerating Cycle Block Diagram



7-2 Basic Structure

7-2-1 Micom Control Diagram



7-2-2 Micom Pin Assignment

(MB89635)

MODEL OPTION	1	P31	Vcc	64	VCC	LED DISPLAY CONTROL			
TEMPERATURE OPTION	2	P30	P32	63					
GND	3	P43	P33	62					
RS-232C	4	P42/UI2	P34	61					
RS-232C	5	P41/UO2	P35	60					
GND	6	P40	P36	59					
GND	7	P53	P37	58					
GND	8	P52	Vss	57	GND				
BUZZER	9	P51/BZ	P00	56					
GND	10	P50	P01	55	GND				
ROOM THERMISTOR	11	P60/AN0	P02	54	GND				
INDOOR PIPE THERMISTOR	12	P61/AN1	P03	53	GND				
OUTDOOR PIPE THERMISTOR	13	P62/AN2	P04	52	GND				
GND	14	P63/AN3	P05	51	GND				
GND	15	P64/AN4	P06	50					
GND	16	P65/AN5	P07	49					
DEICE TEMPERATURE OPTION	17	P66/AN6	P10	48					
DEICE TIME OPTION	18	P67/AN7	P11	47					
VCC	19	AVcc	P12	46	GND				
VCC	20	AVr	P13	45	TEST(Time shortened)				
GND	21	AVss	P14	44	POWER/MODE KEY				
GND	22	P74	P15	43	GND				
GND	23	P73/INT3	P16	42	GND				
GND	24	P72/INT2	P17	41	GND				
GND	25	P71/INT1	P20	40	COMPRESSOR				
REMOTE CONTROL SINGLE INPUT	26	P70/INT0	P21	39	HIGH(FAN MOTOR)				
RESET IC OUTPUT	27	RST	P22	38	LOW(FAN MOTOR)				
GND	28	MOD0	P23	37	4-WAY				
GND	29	MOD1	P24	36	SWING MOTOR				
10MHz RESONATOR	30	X0	P25	35	GND				
10MHz RESONATOR	31	X1	P26	34	GND				
GND	32	Vss	P27	33	NC(OUTPUT PORT)				

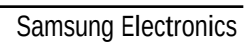
<MODEL OPTION>

P31(#1)	OPTION	NOTE
HIGH	COOLING	AW126JB(COOLING ONLY)
LOW	HEAT PUMP	AWH126JE(HEAT PUMP)

<TEMPERATURE DISPLAY OPTION>

P30(#2)	OPTION	NOTE
HIGH	°C	TEMP DISPLAY UNIT
LOW	°F	TEMP DISPLAY UNIT

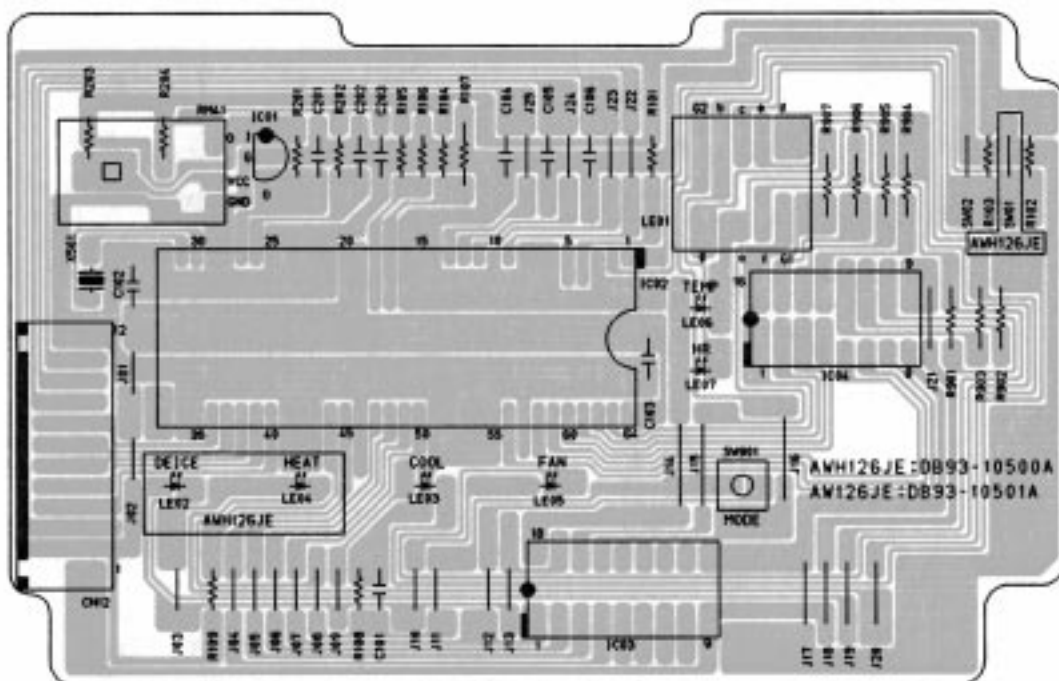
8-1 Main PCB (ASS'Y CODE NO : DB93-10502A)



■ Part List

No.	Description	Code No.	Specification	Q'TY	Remarks
1	ASS'Y MAIN PCB	DB93-1010502A	AW126JB	1	
2	FUSE	DE32-10037A	FST 250V 3.15A	1	F01
3	DIODE RECT	0402-000137	1N4007	6	D101~D106
4	IC VOLT REGU	DE13-20008A	KA7812 TO-220AB	1	IC01
5	IC VOLT REGU	DE13-20016A	KA7805 TO-220AB	1	IC02
6	SCREW TAPPING	DE60-10100A	M3*6 FEFZY	1	-
7	HEAT SINK	DE62-30039A	AL H25	1	-
8	C-AL	2401-000710	2200uF/25V	1	C104
9	C-AL	2401-000180	1000uF/35V	1	C102
10	C-AL	2401-001397	470uF/25V	1	C105
11	FUSE HOLDER	DE47-40024A	FH-51H 7.5A	1	F01
12	SPARK KILLER	DE47-30019A	ESQ1201	1	SK01
13	REALY	3501-000399	JQ1A-12V	3	RY72, RY73, RY75
14	RELAY POWER	DB47-90081A	JM1aN DC12V	1	RY71
15	BUZZER	DE30-20016A	CBE 2220BA STICK	1	BZ601
16	VARISTOR	1405-000147	14D-471K	1	VA71
17	CONNECTOR WAFER	3711-000654	SMW250-12	1	CN11
18	CONNECTOR WAFER	3711-000203	YW396-03AV WHT	1	CN71
19	CONNECTOR WAFER	3711-003407	YW396-03AV RED	1	CN73
20	WIRE-SO, COPPER	DE39-60001A	PI 0.6 SN 52MM	4	J01~J04
21	PCB MAIN	DE41-10428A	AWH126JE	1	PCB
22	TRANS L.V	DE26-20114A	230V 17V	1	TN01
23	CONNECTOR HEADER		JSW250-02 RED	1	CN41
24	IC-DRIVE	DE27-20017A	KID65003AP	1	IC03
25	R-METAL FILM	2004-000218	RD 1/8 TP 103-F	2	R402, R403
26	R-CARBON	2001-001172	RD 1/2T 621-J	1	R601
27	R-CARBON	2001-000003	RD 1/8T 331-J	3	R203, R301, R302, R303
28	C-CERAMIC	2202-000780	100nF/50V	2	C101, C103
29	R-CARBON	2001-000290	RD 1/8 103-J	1	R101
30	R-METAL FILM	2004-001137	RD 1/8 TP 682-F	1	R401

8-2 Display PCB (ASS'Y CODE NO : DB93-10501A)



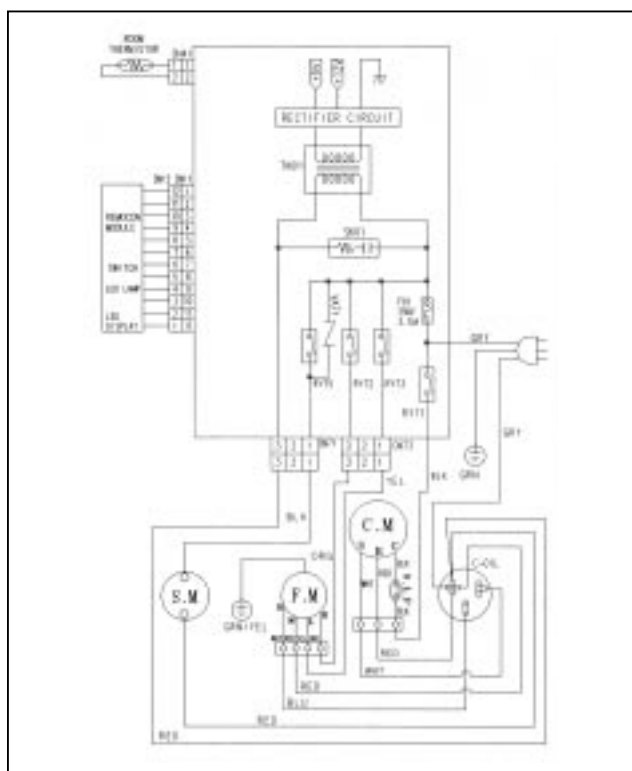
Part List

No.	Description	Code No.	Specification	Q'TY	Remarks
1	ASS'Y PANEL PCB	DB93-10501A	AW126JB	1	
2	LED LAMP	DB07-10021A	LTL-4233(GRN)	4	LE03, LE05, LE06, LE07
3	MODULE REMOCON	DB32-50023A	TSOP1238TBI	1	RM41
4	CONNECTOR WAFER	3711-000643	SMAW250-12	1	CN12
5	HOLDER-SEVEN	DB61-90080A	ABS	1	-
6	IC-SOURCE DRIVE	1003-000217	UDN2981A	1	IC03
7	WIRE-SO, COPPER	DE39-60001A	PI 06 SN 52MM	25	J01~J25
8	SW TACT V	3404-000280	KPT1115A	1	SW901
9	PCB PANEL	DE41-10429A	AWH126JE	1	PCB
10	R-CARBON	2001-000776	RD 1/2 TP 471	7	R901~R907
11	LED-DISPLAY	DE07-20028A	SSD-A3202GMT-S GRN	1	LE01
12	IC-DRIVE	DE13-20017A	KID65003AP	1	IC04
13	C-CERAMIC	2201-000796	1nF/50V	1	C203
14	R-CARBON	2001-000429	RD 1/8 TP 102-J	2	R108, R201
15	R-CARBON	2001-000003	RD 1/8 TP 331-J	2	R202, R203
16	C-CERAMIC	2202-000780	100nF/50V	7	C101~C106, C201
17	C-CERAMIC	2202-000121	101K 0A/50V	1	C202
18	CERAMIC RESONATOR	2802-000103	10Mhz	1	X501
19	R-CARBON	2001-000290	RD 1/8 TP 103J	9	R101~R107, 109, R204
20	IC-MCU		MB89635-	1	IC02
21	IC	DE13-20009A	KA7533 DIP	1	IC01



9. Wiring Diagram

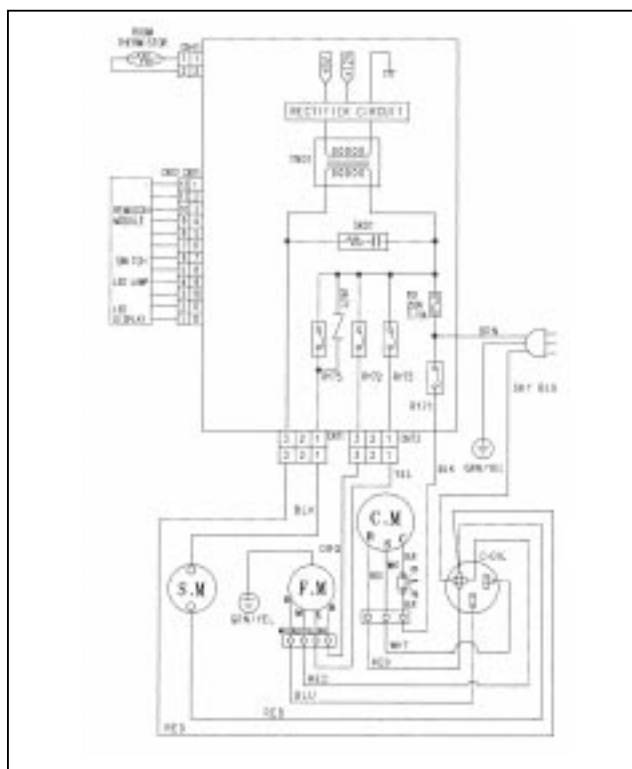
9-1 AW126JB/127JB



CAPACITOR : 3.5/30 μ F 450VAC

POWER SOURCE : 220V~/60Hz

9-2 AW126JE/127JE/12A6JD/12A7JD

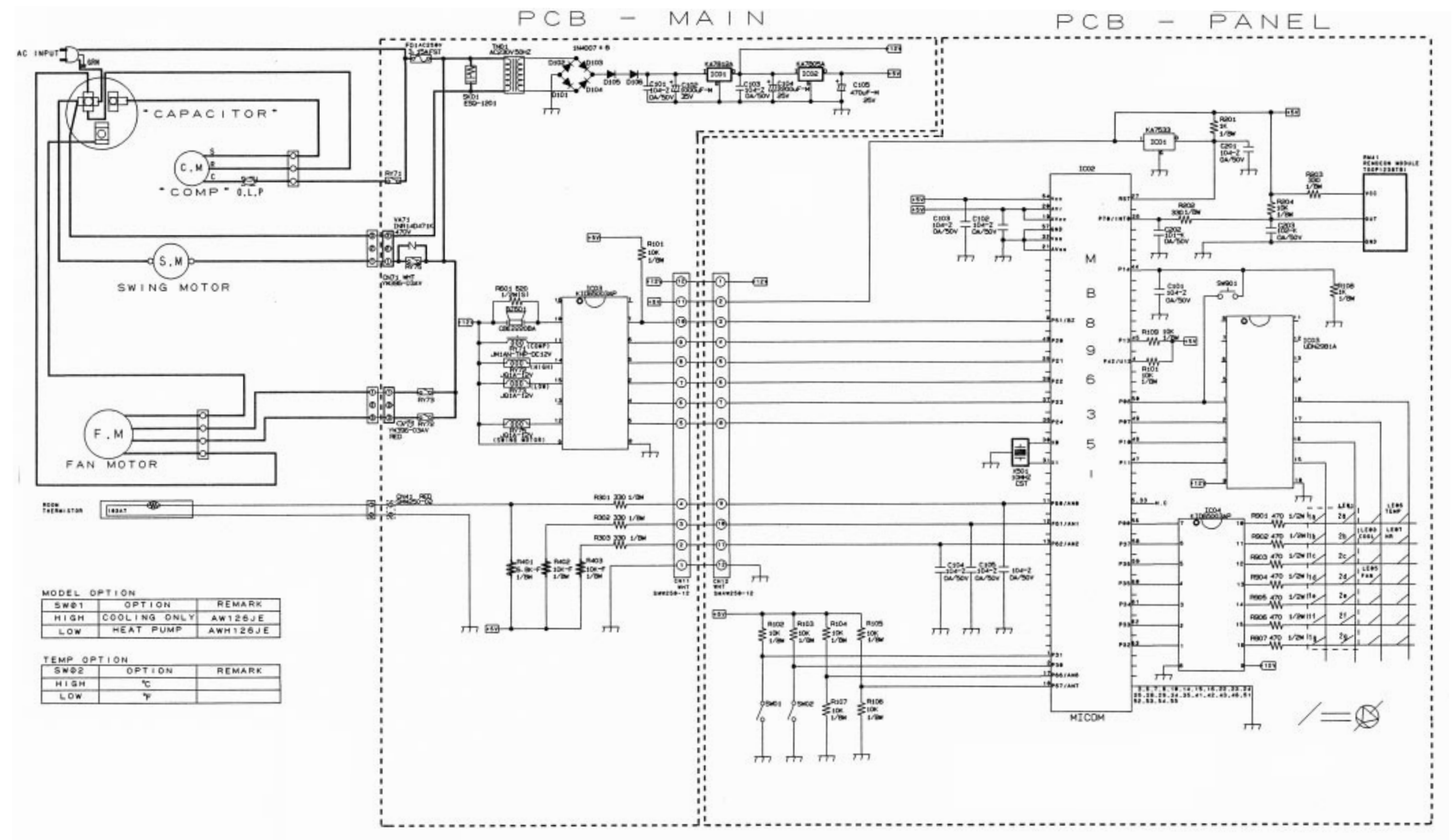


CAPACITOR : 3.5/30 μ F 450VAC

POWER SOURCE : 200-220V~/50Hz
220-240V~/50Hz

10. Schematic Diagrams

10-1 Main PCB



10-2 Remote Control

